

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Takashi IKEDA, et al.) : Examiner: Unassigned
Application No.: Unassigned) : Group Art Unit: Unassigned
Filed: Concurrently Herewith) :
For: MAGNETIZATION REVERSAL)
METHODS FOR MAGNETIC FILM,)
MAGNETORESISTIVE FILMS, AND)
MAGNETIC MEMORIES USING THEM : September 24, 2001

Commissioner for Patents
Box New Application
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to examination on the merits, please amend the above-identified application as follows:

IN THE CLAIMS:

Please amend Claims 36 and 37, to read as follows. A marked-up copy of Claims 36 and 37, showing the changes made thereto, is attached.

36. (Amended) The magnetic memory according to either one of Claims 30 and 31, wherein said magnetoresistive film is a magnetoresistive film in which at least one magnetic film undergoes reversal of magnetization by a magnetic field in a direction of the easy axis of magnetization and in which another magnetic film undergoes reversal of magnetization by applying both the magnetic field in the direction of the easy axis of magnetization and the magnetic field inclined from the direction of the easy axis of magnetization,

wherein recording of information is implemented by applying the magnetic field in the direction of the easy axis of magnetization and the magnetic field in the direction inclined from the direction of the easy axis magnetization, and reproduction of information is implemented by applying only the magnetic field in the direction of the easy axis of magnetization.

37. (Amended) The magnetic memory according to either one of Claims 30 and 31, wherein said magnetoresistive film is a magnetoresistive film in which at least one magnetic film undergoes reversal of magnetization by applying the magnetic fields in the direction of the easy axis of magnetization and in the direction inclined from the direction of the easy axis of magnetization and in which another magnetic film does not undergo reversal of magnetization even by applying the same magnetic fields,

wherein recording and/or reproduction of information is implemented by applying the magnetic fields in the direction of the easy axis of magnetization and in the direction inclined from the easy axis of magnetization.

Please add new Claims 55 and 56, as follows:

--55. (New) The magnetic memory according to Claim 34, wherein said magnetoresistive film is a magnetoresistive film in which at least one magnetic film undergoes reversal of magnetization by a magnetic field in a direction of the easy axis of magnetization and in which another magnetic film undergoes reversal of magnetization by applying both the magnetic field in the direction of the easy axis of magnetization and the magnetic field inclined from the direction of the easy axis of magnetization,

wherein recording of information is implemented by applying the magnetic field in the direction of the easy axis of magnetization and the magnetic field in the direction inclined from the direction of the easy axis magnetization, and reproduction of information is implemented by applying only the magnetic field in the direction of the easy axis of magnetization.

56. (New) The magnetic memory according to Claim 34, wherein said magnetoresistive film is a magnetoresistive film in which at least one magnetic film undergoes reversal of magnetization by applying the magnetic fields in the direction of the easy axis of magnetization and in the direction inclined from the direction of the easy axis of magnetization and in which another magnetic film does not undergo reversal of magnetization even by applying the same magnetic fields,

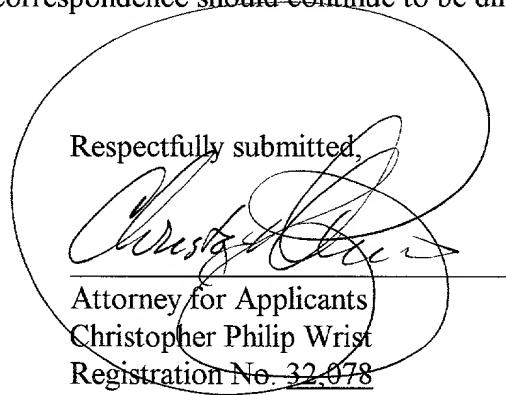
wherein recording and/or reproduction of information is implemented by applying the magnetic fields in the direction of the easy axis of magnetization and in the direction inclined from the easy axis of magnetization.--.

REMARKS

The present Preliminary Amendment is being filed together with the original applications papers in the subject application.

The claims pending in the present application are Claims 1 to 56, the independent claims being Claims 1, 7, 17, 20, 25, 30, 31, 47, 53 and 54. Claims 36 and 37 have been amended and Claims 55 and 56 have been added to improve the form (dependency) of the claims under U.S. patent practice. No new matter has been added.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.



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VERSION WITH MARKINGS TO SHOW CHANGES MADE TO THE CLAIMS

36. (Amended) The magnetic memory according to either one of Claims 30[,] and 31, [and 34,] wherein said magnetoresistive film is a magnetoresistive film in which at least one magnetic film undergoes reversal of magnetization by a magnetic field in a direction of the easy axis of magnetization and in which another magnetic film undergoes reversal of magnetization by applying both the magnetic field in the direction of the easy axis of magnetization and the magnetic field inclined from the direction of the easy axis of magnetization,

wherein recording of information is implemented by applying the magnetic field in the direction of the easy axis of magnetization and the magnetic field in the direction inclined from the direction of the easy axis magnetization, and reproduction of information is implemented by applying only the magnetic field in the direction of the easy axis of magnetization.

37. (Amended) The magnetic memory according to either one of Claims 30[,] and 31, [and 34,] wherein said magnetoresistive film is a magnetoresistive film in which at least one magnetic film undergoes reversal of magnetization by applying the magnetic fields in the direction of the easy axis of magnetization and in the direction inclined from the direction of the easy axis of magnetization and in which another magnetic film does not undergo reversal of magnetization even by applying the same magnetic fields,

wherein recording and/or reproduction of information is implemented by

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applying the magnetic fields in the direction of the easy axis of magnetization and in the direction inclined from the easy axis of magnetization.